

EXHIBIT “P”

Perkins Eastman

ARCHITECTURE
CONSULTING
INTERIOR DESIGN
PLANNING
PROGRAMMING

SUBMITTAL REVIEW COMMENT

Spec. Section	08 44 13	File No.	020
Project No.	32130.00	Subm. No.	02
Perkins Eastman			
<p>Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating the work with that of all other trades; and performing the work in a safe and satisfactory manner.</p>		no exceptions taken	<input type="checkbox"/>
		make corrections noted	<input checked="" type="checkbox"/>
		revise and resubmit	<input type="checkbox"/>
		rejected	<input type="checkbox"/>
		no action taken	<input type="checkbox"/>
by	L.G.	date	02/23/2015

1- SEE ENCLOSED COMMENTS FROM ALT AND PE.
 2- THE SPLICE SEAL AND CORNER MULLION CALCS AND CORNER CONDITION MUST BE ADDRESSED.
 2- PREVIOUS SUBMITTAL COMMENTS MUST BE ADDRESSED.
 3-CM TO COORDINATE WITH ALL APPROVED DECKING, APPROVED SLAB EDGE, T.O.S. ELEVATIONS, GRADE ELEVATIONS AND APPROVED FRAMING PLANS; TYP.
 4- COORDINATE WITH APPROVED ADJACENT WALL ASSEMBLIES AND TRANSITIONS; TYP.
 5- PROVIDE ACTUAL PROJECT CONDITION DETAILS AT THE VARIOUS WALL TRANSITIONS. MATERIAL SPECS AND TRANSITION DETAILS MUST BE PROVIDED FOR ELEMENTS BY WCC.
 6- REFER TO COMMENTS ON STRUCTURAL CALCULATIONS, INCLUDING PROVIDING STRUCTURAL CALCULATIONS FOR THE WCC ELEMENTS INCLUDING HORIZONTAL TUBE AND ANCHORAGE LOCATIONS.
 7- Products shall comply with the guidelines for LEED certification as outlined in the specifications. All applicable product submittals to include all required documentation requirement of LEED certification including but not limited to: recycled and/or local content, material cost, and/or VOC content.
 8. SPECIFY FILLER METAL FOR ALL STAINLESS STEEL WELDS.
 9. VERIFY FILLER METAL FOR WELDS MEETS FILLER METAL ASSUMED IN CALCS.

NORTH AMERICA
ARLINGTON, VA
BOSTON, MA
CHARLOTTE, NC
CHICAGO, IL
NEW YORK, NY
OAKLAND, CA
PITTSBURGH, PA
STAMFORD, CT
TORONTO, ON
SOUTH AMERICA
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MIDDLE EAST
DUBAI, UAE

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ALT LIMITED

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Tel. No. (632) 659-0381 Fax No. (632) 659-7249

22 February 2015

Ms. Mindy No
Perkins Eastman
115 Fifth Avenue
New York, NY 10003

Reference: P09.00.517 No. P150222-1

**Subject: 2nd Review – Yunda WT1, WT3, & WT8
SUBMITTAL: Drawings 084413-020-02, Calcs 084413-020.001-02**

Ms. No,

Attached is the review for the drawings and calculations referenced above.

There are only two items of major significance:

1. Splice seal. I think they need to fix the non-moving portions of the reinforcing extrusion so that the joint that is intended to move will, in fact, be the joint that moves.
2. I cannot tell if the corner mullion calcs are correct. I would expect to see the mullions rotated 45 degrees in the computer runs to model the principle axis of the mullions, but this is not there.

There are other minor comments, but these should not require resubmission.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Steve Strebel'.

Steve Strebel

CC File
Ms. Lara Guerra

- ALT
- PE

Suite 2203-2204 Tai Yip Building, 141 Thomson Road, Wanchai, Hong Kong
Tel: (852) 2838-8512 Fax: (852) 2824-9009
Email: altld@cladding.com Website: www.cladding.com

Submit from glass manufacturer:
1. Review of details and acceptance
2. Thermal stress review and statement of acceptance.

Submit from sealant manufacturer:
1. Detail review
2. Compatibility review for all components in contact with sealant.
3. Adhesion testing for all components requiring sealant adhesion.
4. Stress statement for structural silicones.

Submit extrusions showing:
1. Full scale die drawings
2. Dimensions

Add to the schedule of fasteners:
1. Structural properties
2. Finish or treatment
3. Manufacturer
4. Country of Origin

Submit product / material samples:
1. Backer rods
2. Fasteners
3. Bond breakers
4. Embedments
5. Extrusions
6. Finishes (showing color range)
7. Fire stop
8. Gaskets
9. Glass (each type)
10. Hardware
11. Insulation
12. Isolators
13. Sealants
14. Setting Blocks
15. Shims
16. Smoke seal
17. Spacers
18. Tapes
19. Any other significant material

Some items are noted by Yunda as already sent. Please list the item requested, transmittal number with sample, and transmittal number with documentation in a table.

Submit from the insulation, fire rating, and smoke seal manufacturer:
1. Product datasheets with full information including:
- U-value
- Compression at installation requirements
- Orientation of fiber direction instructions
- thicknesses required for fire rating
- Smoke seal overlap requirements
- Smoke seal wet and dry minimum thicknesses
2. Fire rating certifications with hour rating.
3. Certification test documents.

NOTE: This is a review of a partial submission. No structural calculations, drawings of anchors, material specifications were submitted for the "by WCC" elements. Examples include the steel tubes that support WT3 and screws and closures at the perimeter of the Yunda walls.

Drawings also to be reviewed by BMU, fire, LEED and other consultants/authorities.

Comments on one sheet are applicable to similar conditions on other sheets.

Subsequent reviews may find additional items.

Architect to review aesthetic, finishes, modulation, and geometry.

WHITESTONE CONSTRUCTION CORP
Project/Contract #: New Academic Bldg.
NY-CUCF-01-08-CURT
Date: 2/03/14 Rev#:001
Spec: 084413-186 - GLAZED ALUMINUM CURTAIN WALLS
Dwg: Shops [WT-1,3,6,8] Full Scope

Reviewed
F. J. Solano Construction
02/06/2015
084413-020-02 (Alum Curtain)

CITY TECH ACADEMIC BUILDING

285 JAY STEET BROOKLYN ,NY11201

JAN 30th, 2015
FIRST RESUBMISSION

CURTAIN WALL SHOP DRAWINGS



SHENYANG YUANDA ALUMINIUM INDUSTRY ENGINEERING CO., LTD

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WT1, 3, & 6, ALT 2nd Review 2015-02-09
Submittal 084413-020-02

CONFIDENTIAL

YUANDA08000358

LIST OF DRAWING

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Reviewed
F. A. Schmitt, Construction
04413420-02 (Rev. 04/01)

KEY PLAN

CONSTRUCTION MANAGER
F. A. Schmitt, Construction
04413420-02 (Rev. 04/01)

ARCHITECT
F. A. Schmitt, Construction
04413420-02 (Rev. 04/01)

CONTRACTOR
F. A. Schmitt, Construction
04413420-02 (Rev. 04/01)

PROJECT TITLE
CITY TECH
ACADEMIC
BUILDING
1000 N. STREET, SUITE 100, LOS ANGELES, CA 90012

Drawing Title
LIST OF DRAWING

DATE
04/01/21

DESIGNED BY
F. A. Schmitt

CHECKED BY
F. A. Schmitt

APPROVED BY
F. A. Schmitt

DATE
04/01/21

PROJECT TITLE
CITY TECH
ACADEMIC
BUILDING
1000 N. STREET, SUITE 100, LOS ANGELES, CA 90012

Drawing Title
LIST OF DRAWING

DATE
04/01/21

DESIGNED BY
F. A. Schmitt

CHECKED BY
F. A. Schmitt

APPROVED BY
F. A. Schmitt

DATE
04/01/21

CONFIDENTIAL

YUANDA0000360

LIST OF DRAWING

AL	DRAWING TITLE	DRAWING NO.	DATE	REV.	PAGE
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119	DETAIL OF DRAINAGE DRAINWAYS	A0201	A1	0	1
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121	DETAIL OF DRAINAGE DRAINWAYS	A0203	A1	0	1
122	DETAIL OF DRAINAGE DRAINWAYS	A0204	A1	0	1
123	DETAIL OF DRAINAGE DRAINWAYS	A0205	A1	0	1
124	DETAIL OF DRAINAGE DRAINWAYS	A0206	A1	0	1
125	DETAIL OF DRAINAGE DRAINWAYS	A0207	A1	0	1
126	DETAIL OF UNIT INSTALLATION	A0301	A1	0	1
127	DETAIL OF UNIT INSTALLATION	A0302	A1	0	1
128	DETAIL OF UNIT INSTALLATION	A0303	A1	0	1
129	DETAIL OF UNIT INSTALLATION	A0304	A1	0	1
130	DETAIL OF UNIT INSTALLATION	A0305	A1	0	1
131	DETAIL OF UNIT INSTALLATION	A0306	A1	0	1
132	DETAIL OF UNIT INSTALLATION	A0307	A1	0	1
133	DETAIL OF UNIT INSTALLATION	A0308	A1	0	1
134	DETAIL OF UNIT INSTALLATION	A0309	A1	0	1
135	DETAIL OF UNIT INSTALLATION	A0310	A1	0	1
136	DETAIL OF UNIT INSTALLATION	A0311	A1	0	1
137	DETAIL OF UNIT INSTALLATION	A0312	A1	0	1
138	DETAIL OF UNIT INSTALLATION	A0313	A1	0	1
139	DETAIL OF UNIT INSTALLATION	A0314	A1	0	1
140	DETAIL OF UNIT INSTALLATION	A0315	A1	0	1
141	DETAIL OF UNIT INSTALLATION	A0316	A1	0	1

NO.	DRAWING TITLE	DRAWING NO.	SIZE	REV.	PAGE
141	DETAIL OF UNIT INSTALLATION	AD017	A1	0	1
142	DETAIL OF UNIT INSTALLATION	AD018	A1	0	1
143	DETAIL OF 30 VIEW	AD061	A1	0	1
144	DETAIL OF 30 VIEW	AD062	A1	0	1
145	DETAIL OF 30 VIEW	AD063	A1	0	1
146	DETAIL OF 30 VIEW	AD064	A1	0	1
147	DETAIL OF 30 VIEW	AD065	A1	0	1
148	DETAIL OF 30 VIEW	AD066	A1	0	1
149	DETAIL OF 30 VIEW	AD067	A1	0	1
150	DETAIL OF 30 VIEW	AD068	A1	0	1
151	DETAIL OF 30 VIEW	AD069	A1	0	1
152	DETAIL OF 30 VIEW	AD070	A1	0	1
153	NATIONAL LIST FOR STEEL BEAM DRAWINGS	ED01	A1	0	1
154	NATIONAL LIST FOR STEEL BEAM DRAWINGS	ED02	A1	0	1
155	STEEL BEAM DRAWINGS	ED03	A1	0	1
156	STEEL BEAM DRAWINGS	ED04	A1	0	1
157	DISTRIBUTION DRAWING FOR WEST ELEVATION	ED05	A1	0	1
158	DISTRIBUTION DRAWING FOR EAST ELEVATION	ED06	A1	0	1
159	DISTRIBUTION DRAWING FOR NORTH ELEVATION	ED07	A1	0	1
160	DISTRIBUTION DRAWING FOR SOUTH ELEVATION	ED08	A1	0	1
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Yours Truly	MARK KILGORE
Checked By	Dave
Listening	MARK KILGORE
Approved By	Dave

YUANDA0000361

CURTAIN WALL SPECIFICATION

I. General

1. This is L1-roof curtain wall shop drawings for CUNY.
2. The curtain wall system include as follow:
 - WT-1A/B/C Unitized Curtainwall
 - WT-3 Point Glazed Struct. Glass Curtainwall
 - WT-6 Canopy
 - WT-8 Unitized Curtainwall
3. Yuanda's scope of work
 - Yuanda's bid documents.
 - The contract documents between Yuanda and WCC.

II. Design basis

1. Yuanda's bid documents.
2. The contract documents between Yuanda and WCC.
3. The newest Architectural drawings and Structure drawings.
4. Specifications 084413, 084426, 088000 & related sections.

III. Design criteria

1. Wind load:
 - a. Typical: +/- 30 psf, Corner: +/- 55psf.
2. Deflection limits:
 - a. The deflection of vertical frame is Limited to 1/175 of clear span for spans up to 13 feet 6 inches (4.1 m) and to 1/240 of clear span plus 1/4 inch (6.35 mm) for spans greater than 13 feet 6 inches (4.1 m) or an amount that restricts edge deflection of individual glazing lites to 3/4 inch (19 mm), whichever is less.
 - b. Glass Deflection: Center of glass deflection at half design load shall not exceed 1/90 of its span or 3/4" inch (19 mm), whichever is less. Center of glass deflection at full design load shall not exceed 1.5 inches (38 mm).
 - c. Metal Panel Deflection: Deflection shall not exceed 1/120 of clear span or 3/4" inch, whichever is less.
3. Structure tolerance: 1" in any direction.
4. Movement requirement: The structure was designed to drift less than or equal to L/400 where L is floor to floor height. Regarding* beam deflection, column compression, -slab edge beam deflection -long cantilever beams off columns, " the maximum added up value for L4-8 is 0.92", and that for L1-3 is 0.86".
5. Energy Performance: U-factor of the vision glass shall not exceed 0.29 BTU/sf x hr x °F.
6. Air Infiltration:
 - a. For fixed areas, 0.06 cfm/ft² of exterior surface area with a pressure differential of 6.24 psf.
 - b. For operable windows and doors: 0.25 cfm/ft² of exterior surface area with a pressure differential of 6.24 psf.

7. Water Penetration: 12 psf with no uncontrolled water appears on any interior surface.
8. Structure tolerance: ±1/2" outward and inward, ±1/2" up and down.

IV. Duty of reviewer

1. The approval of the architect /consultant indicates that he/she had reviewed and agreed that the drawings comply with the design concept and the contract documents. The approval of the architect/ consultant also indicates that all the dimensions, profiles, finish and facade materials meet the aesthetics requirements of the architect.

V. Others

1. Yuanda will not assume any responsibility for any mistakes caused when other parties use these drawings.
2. Yuanda will not assume any responsibility for the deficiency or over tolerance of the building structure.
3. Yuanda will not assume any responsibility for any delay and loss arising from not receiving sufficient information being provided with the wrong or not being provided with information in time.

VI. Materials

1. The aluminum alloy: 6063-T5, 6063-T6, 6061-T6 (as per calculation)
2. Exterior aluminum extrusion: Silver anodized coats finish AA20. Interior aluminum extrusion: Silver anodized coats finish AA20. Concealed aluminum extrusion: Silver anodized coats finish AA15.
3. The aluminium solid panel:
 - Exterior: 3003-H14, 3.2mm thickness, the exterior visible finish is PVDF 3 coats, color to be determined by architect.
 - Shadow box: 3003-H14, 2mm thickness, the finish is powder coat color to be determined by architect.
4. Carbon steel: Q235 and galvanized.
5. Back pan: 1mm galvanized steel sheet.
6. Thermal Insulation: 110mm thickness rock wool, the density is 128 kg/m³.
7. Fastener: 316 stainless steel.
8. Gasket: Silicone gasket, color is gray, used for the concealed area, Silicone gasket, color is gray, used for the exposed area.
9. Sealant:
 - Structure sealant: Dow coming 993N, color is gray.
 - Weatherproofing sealant: Dow coming 791, color is gray.

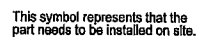
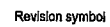
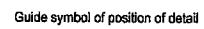
10. Glass:

- PROVIDE ASTM E90 ACOUSTI REPORT FOR EACH TYPE OF GLASS ASSEMBLY
- PROVIDE AND COORDINATE ALL CONTROL BASE POINT ELEVATIONS WITH THE VARIOUS WALL ASSEMBLIES. COORDINATE WITH APPROVED PROJECT SHOP DRAWINGS FOR THE VARIOUS ASSEMBLIES.
- G1:
8MM CLEAR HS LOW-E (YNE0175) ON #2 SURFACE
+12AR+8MM CLEAR HS WITH WARM EDGE
- G2:
8MM CLEAR HS
Shadow box:P04
- G3:
8MM CLEAR HS LOW-E (YNE0175) ON #2 SURFACE+12AR+8MM CLEAR HS WITH COMMON WHITE TEXT FRIT ON #3 SURFACE AND WARM EDGE
Shadow box:P02
- G3A:
8MM CLEAR HS LOW-E (YNE0175) ON #2 SURFACE+12AR+8MM CLEAR HS WITH COMMON WHITE DOTS FRIT ON #3 SURFACE AND WARM EDGE
Shadow box:P02
- G4:
8MM CLEAR HS LOW-E (YNE0175) ON #2 SURFACE
+12AR+19MM CLEAR FT WITH WARM EDGE
- G4A:
8MM CLEAR FT LOW-E (YNE0175) ON #2 SURFACE
+12AR+19MM CLEAR FT WITH WARM EDGE
- G5:
12MM CLEAR FT +3.04 CLEAR SGP+ 12 MM CLEAR FT ;
- G6:
12MM CLEAR FT +3.04 CLEAR SGP+ 12 MM CLEAR FT+3.04 CLEAR SGP+12 MM CLEAR FT
- G9:
12MM CLEAR FT +1.52 CLEAR SGP+12MM CLEAR FT;
- G10:
8MM CLEAR FT LOW-E (YNE0175) ON #2 SURFACE
+12AR+8MM CLEAR FT WITH WARM EDGE;
- G11:
8MM CLEAR FT LOW-E (YNE0175) ON #2 SURFACE+12AR+8MM CLEAR FT WITH COMMON WHITE TEXT FRIT ON #3 SURFACE WITH WARM EDGE,
Shadow box:P02
- G11A:
8MM CLEAR FT LOW-E (YNE0175) ON #2 SURFACE+12AR+8MM CLEAR FT WITH COMMON WHITE DOTS FRIT ON #3 SURFACE WITH WARM EDGE;
Shadow box:P02
- G12:
8MM CLEAR FT;
Shadow box:P04

FULLY
TEMPERED

Reviewed F. J. Sclera, Construction 12/12/2018 084413-02-02 (A) (m) (u)	
DATE	BY
12/12/2018	F. J. Sclera
KEY PLAN	
OWNER: THE CITY UNIVERSITY OF NEW YORK BUREAU OF ARCHITECTURE NEW YORK, NY 10003	
CONSTRUCTION MANAGER: JAMES CONSTRUCTION 1 WALL STREET NEW YORK, NY 10005	
ARCHITECT: PERKINS+WILL 111 WEST Wacker Drive New York, NY 10036	
CONSULTANT: ALL TRADES LIMITED 100 WEST 30th Street New York, NY 10001	
CURTAIN WALL SPECIFICATION YUANDA USA CORPORATION	
PROJECT TITLE CITY TECH ACADEMIC BUILDING 138 EAST STREET, BROOKLYN, NY 11201	
Drawing Title CURTAIN WALL SPECIFICATION	
DESIGN SPECIFICATION Date: 12/12/2018 By: F. J. Sclera Checked By: [Blank] Date: [Blank] Approved By: [Blank] Date: [Blank]	

VII. Reference symbols



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